Product data sheet

Specifications





AC servo motor BSH, Lexium 32, 0.21N.m, 9000rpm, keyed shaft, with brake, IP50

BSH0401P17F2A

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 1,998.00 USD

Main

Device short name	BSH	
Product or Component Type	Servo motor	
Maximum mechanical speed	10000 rpm	
Continuous stall torque	1.86 lbf.in (0.21 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 1.86 lbf.in (0.21 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 1.86 lbf.in (0.21 N.m) LXM32.U45M2 1.5 A, 230 V, single phase	
Peak stall torque	7.08 lbf.in (0.8 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 7.08 lbf.in (0.8 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 7.08 lbf.in (0.8 N.m) LXM32.U45M2 1.5 A, 230 V, single phase	
Nominal output power	166 W LXM32.U60N4 1.5 A, 480 V, three phase 166 W LXM32.U60N4 1.5 A, 400 V, three phase 77 W LXM32.U45M2 1.5 A, 230 V, single phase	
Nominal torque	1.558 lbf.in (0.176 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 1.558 lbf.in (0.176 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 1.629 lbf.in (0.184 N.m) LXM32.U45M2 1.5 A, 230 V, single phase	
Nominal speed	9000 rpm LXM32.U60N4 1.5 A, 480 V, three phase 9000 rpm LXM32.U60N4 1.5 A, 400 V, three phase 4000 rpm LXM32.U45M2 1.5 A, 230 V, single phase	
Shaft end	Keyed	
IP Degree of Protection	IP50 standard	
Speed feedback resolution	32768 points/turn x 4096 turns	
Holding brake	With	
Mounting Support	International standard flange	
Electrical Connection	Rotatable right-angled connectors	

Complementary

Range Compatibility	Lexium 32
supply voltage max	400 V
Phase	Three phase
Continuous stall current	1.12 A
maximum continuous power	220 W
Maximum current Irms	4.7 A LXM32.U60N4 480 V 4.7 A LXM32.U60N4 400 V 4.7 A LXM32.U45M2 230 V
Maximum permanent current	1.12 A
Switching frequency	8 kHz

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Second shaft	Without second shaft end
Shaft diameter	0.3 in (8 mm)
Shaft length	1.0 in (25 mm)
Key width	0.5 in (12 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	3.5 lbf.in (0.4 N.m) holding brake
Motor flange size	1.6 in (40 mm)
Number of motor stacks	1
Torque constant	0.19 N.m/A 248.0000000000 °F (120 °C)
Back emf constant	13.6 V/krpm 68.0000000000 °F (20 °C)
Number of motor poles	10
Rotor inertia	0.04 kg.cm²
Stator resistance	17.2 Ohm 68.0000000000 °F (20 °C)
Stator inductance	14.6 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	0.85 ms 68.0000000000 °F (20 °C)
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	5.8 W
Type of cooling	Natural convection
Length	3.9 in (99.4 mm)
Centring collar diameter	1.2 in (30 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (4.5 mm)
Circle diameter of the mounting holes	1.8 in (46 mm)
Net Weight	1.3 lb(US) (0.6 kg)

Ordering and shipping details

Category	US1PC5318282	
Discount Schedule	PC53	
GTIN	3606485467214	
Returnability	No	
Country of origin	DE	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.3 in (11.0 cm)
Package 1 Width	6.7 in (17.0 cm)
Package 1 Length	9.4 in (24.0 cm)
Package 1 Weight	22.1 oz (627.0 g)



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
Ø	Pvc Free	

Certifications & Standards

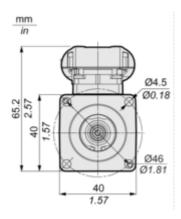
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
Circularity Profile	No need of specific recycling operations	
California Proposition 65	"WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov"	

Dimensions Drawings

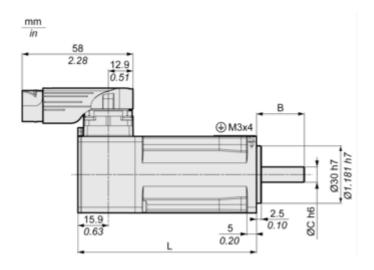
Servo Motors Dimensions

For Servo Motor with Brake

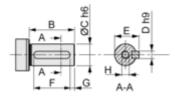
Front view



Left view



DIN 6885 A



	Dimensions in mm	Dimensions in in.
L	99.4	3.91
В	25	0.98
С	8	0.31
D	3	0.12

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	Dimensions in mm	Dimensions in in.
E	9.2	0.36
F	12	0.47
G	4	0.16
н	DIN 332 DS M3 x 9	
А	DIN 6885-A3x3x12	